KENWOOD

KDC-4080R
KDC-4080RV
KDC-3080RA
KDC-3080RG
KDC-303RG

CD-RECEIVER

INSTRUCTION MANUAL

KENWOOD CORPORATION

©B64-1549-00 (E)

COMPACT disc DIGITAL AUDIO

English

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⚠WARNING

To prevent injury and/or fire, take the following precautions:

- Insert the unit all the way until it is fully locked in place. Otherwise it may fly out of place during collisions and other jolts.
- When extending the ignition, battery or ground cables, make sure to use automotive-grade cables or other cables with an area of 0.75mm² (AWG18) or more to prevent cable deterioration and damage to the cable coating.
- To prevent short circuits, never put or leave any metallic objects (e.g., coins or metal tools) inside the unit.
- If the unit starts to emit smoke or strange smells, turn off the power immediately and consult your Kenwood dealer.
- Make sure not to get your fingers caught between the faceplate and the unit.
- Be careful not to drop the unit or subject it to strong shock.
  The unit may break or crack because it contains glass parts.
- Do not touch the liquid crystal fluid if the LCD is damaged or broken due to shock. The liquid crystal fluid may be dangerous to your health or even fatal.
  If the liquid crystal fluid from the LCD contacts your body or clothing, wash it off with soap immediately.

⚠CAUTION

To prevent damage to the machine, take the following precautions:

- Make sure to ground the unit to a negative 12V DC power supply.
- Do not open the top or bottom covers of the unit.
- Do not install the unit in a spot exposed to direct sunlight or excessive heat or humidity. Also avoid places with too much dust or the possibility of water splashing.
- Do not set the removed faceplate or the faceplate case in areas exposed to direct sunlight, excessive heat or humidity. Also avoid places with too much dust or the possibility of water splashing.
- To prevent deterioration, do not touch the terminals of the unit or faceplate with your fingers.
- Do not subject the faceplate to excessive shock, as it is a piece of precision equipment.
- When replacing a fuse, only use a new one with the prescribed rating. Using a fuse with the wrong rating may cause your unit to malfunction.
- To prevent short circuits when replacing a fuse, first disconnect the wiring harness.
- Do not place any object between the faceplate and the unit.
- During installation, do not use any screws except for the ones provided. The use of improper screws might result in damage to the main unit.

IMPORTANT INFORMATION

You cannot connect the unit directly to the following CD automatic changers. For users who want to use older changers with the unit, follow the directions below according to the type of changer you own:

- **KDC-C200 / KDC-C300 / KDC-C400**
  Use the extension cable and the control box attached to the CD changer, and the optional CA-DS100 converter cable.
- **KDC-C301 / KDC-C600 / KDC-C800 / KDC-C601 / KDC-C401**
  Use the extension cable attached to the CD changer, and the optional CA-DS100 converter cable.
- **KDC-C100 / KDC-C302 / C205 / C705 / non-Kenwood CD changers**
  Cannot be used with this model.

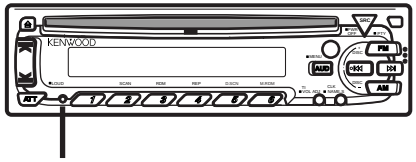
⚠CAUTION

You can damage both your unit and the CD changer if you connect them incorrectly.

Safety precautions

NOTE

- If you experience problems during installation, consult your Kenwood dealer.
- If the unit does not seem to be working right, try pressing the reset button first. If that does not solve the problem, consult your Kenwood dealer.



- Characters in the LCD may become difficult to read in temperatures below 41 ˚F (5 ˚C).
- The illustrations of the display and the panel appearing in this manual are examples used to explain more clearly how the controls are used. Therefore, what appears on the display in the illustrations may differ from what appears on the display on the actual equipment, and some of the illustrations on the display may represent something impossible in actual operation.
- The functions that can be used and the information that can be displayed will differ depending on the external disc players being connected.

Cleaning the Faceplate Terminals

If the terminals on the unit or faceplate get dirty, wipe them with a dry, soft cloth.

Cleaning the Unit

If the front panel gets dirty, turn off the power and wipe the panel with a dry silicon cloth or soft cloth.

⚠CAUTION

Do not wipe the panel with a stiff cloth or a cloth dampened by volatile solvents such as paint thinner and alcohol. They can scratch the surface of the panel and/or cause the indicator letters to peel off.

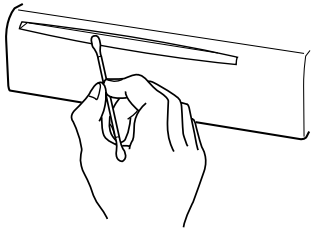
The marking of products using lasers (Except for some areas)

CLASS 1
LASER PRODUCT

The label is attached to the chassis/case and says that the component uses laser beams that have been classified as Class 1. It means that the unit is utilizing laser beams that are of a weaker class. There is no danger of hazardous radiation outside the unit.

Cleaning the CD Slot

As dust can accumulate in the CD slot, clean it occasionally. Your CDs can get scratched if you put them in a dusty CD slot.



Lens Fogging

Right after you turn on the car heater in cold weather, dew or condensation may form on the lens in the CD player of the unit. Called lens fogging, CDs may be impossible to play. In such a situation, remove the disc and wait for the condensation to evaporate. If the unit still does not operate normally after a whilst, consult your Kenwood dealer.

⚠CAUTION

Do Not Load 8-cm (3-in.) CDs in the CD slot

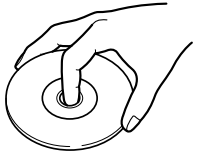
If you try to load an 8-cm CD with its adapter into the unit, the adapter might separate from the CD and damage the unit.

Handling Compact discs

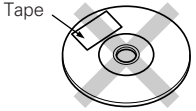
Playing a CD that is dirty, scratched or warped can cause the sound to skip and the unit to operate incorrectly, resulting in worsened sound quality. Take the following precautions to prevent your CDs from getting scratched or damaged.

Handling CDs

- Do not touch the recorded side of the CD (i.e., the side opposite the label) when holding it.



- Do not stick tape on either side of the CD.

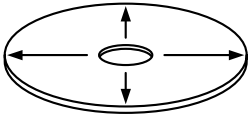


Storing CDs

- Do not store CDs in areas exposed to direct sunlight – such as a car seat or above the fascia panel (dashboard) – or other hot places.
- Remove CDs from the unit when not listening to them for a whilst, and put them back in their cases. Do not stack CDs that have been removed from their cases or prop them against something.

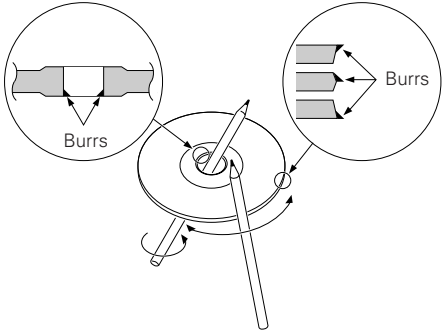
Cleaning CDs

If a CD has become dirty, wipe it off gently using a commercially available cleaning cloth or a soft cotton cloth, starting from the centre of the disc and moving outward. Do not clean CDs with conventional record cleaners, anti- static formulas, or chemicals such as paint thinner or benzene.



Checking New CDs for Burrs

When playing a new CD for the first time, check that there are not any burrs stuck to the perimeter of the disc or in the central hole. CDs with burrs stuck on them may not load properly or may skip whilst playing. Remove burrs using a ballpoint pen or a similar utensil.

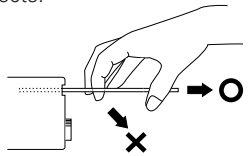


Do Not Load CD Accessories in Slot

Do not use commercially available CD accessories that can be loaded into the CD slot, such as stabilisers, protective sheets, or CD cleaning discs, since they can cause the unit to malfunction.

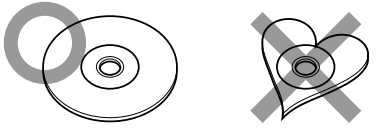
Removing the CD

Only remove the CD from the machine in a horizontal direction. You may damage the surface of the CD if you try pulling it down as it ejects.



Do Not Use Special Shape CDs

- Be sure to use round shape CDs only for this unit and do not use any special shape CDs. Use of special shape CDs may cause the unit to malfunction.

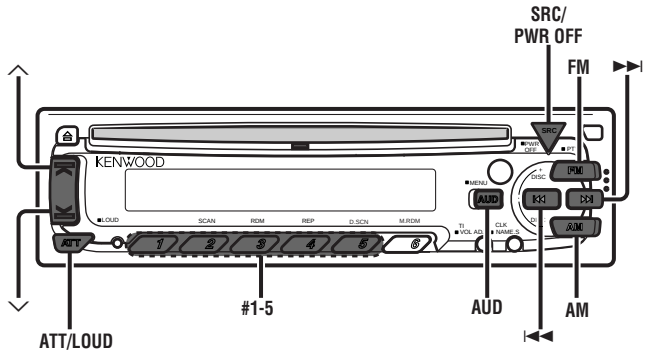


- Be sure to use CDs with disc mark only for this unit.

Do Not Use CDs with Sticker on the Labelled Side

Do not use the CD with the label sticker stuck on it.
Using such a CD may cause the CD to be deformed and the sticker to peel off, resulting in malfunction of the unit.

General features



Power

Turning on the power:
Press the SRC button.

NOTE

Turn the power on before carrying out the following procedures.

Turning off the power:
Hold down the PWR OFF button for one second or more.

Volume

Increasing Volume:
Press the ∧ button to turn up the volume.

Decreasing Volume:
Press the ∨ button to turn down the volume.

Switching Modes

Switching Modes:
Each time you press the SRC button, the mode switches as follows:

Tuner mode
▼
CD mode
▼
External disc control mode 1
(KDC-4080R/4080RV only)
▼
External disc control mode 2/
AUX mode (KDC-4080R/4080RV only)
▼
Standby mode

Selecting the standby mode:

Press the SRC button repeatedly to select to "ALL OFF".
When "ALL OFF" is displayed, the standby mode is turned on.
The standby mode turns all functions off although leaving the unit's power on. Use this mode when you want to have the display illuminated but do not want to listen to anything.

NOTE

- The mode switches to the next mode from any mode which cannot be used.
- The external disc control mode will differ depending on the unit that is connected.
- The AUX mode is available only when the changer / AUX switching adapter (KCA-S210A or CA-C1AX) or CD changer (KDC-CPS85, KDC-CX85, KDC-CPS82 or KDC-CX82) is connected to this unit.
  During the AUX mode, "AUX" will show in the display.
  When the CA-C1AX is being used, the AUX Mode will replace the External Disc Control Mode.

TEL Mute

Shut down the audio system temporarily whenever an incoming call is received.

NOTE

The function will not work if a cable is not connected to the car phone.

When the telephone rings:

When a call is received, "CALL" is displayed and all the unit functions are temporarily interrupted.

Restoring Original Unit Source During Phone Call:

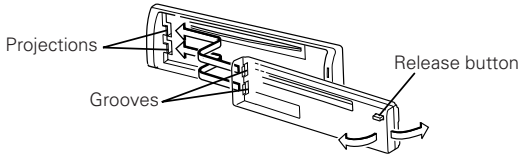
Press the SRC button.
"CALL" disappears from the display, and the volume of the original source is restored gradually.

Turning TEL Mute Function Off After Phone Call:

Hang the phone up.
"CALL" disappears from the display.
The original source (i.e., the one used before the phone call) is returned to automatically, and the volume restored gradually.

Theft Deterrent Faceplate

The faceplate of the unit can be detached and taken with you, helping to deter theft.

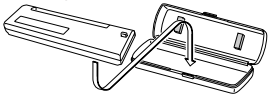


Removing Faceplate:

Press the release button.
The faceplate is unlocked, allowing you to detach it.

NOTE

- The faceplate is a precision piece of equipment and can be damaged by shocks or jolts. For that reason, keep the faceplate in its special storage case whilst detached.



- Do not expose the faceplate or its storage case to direct sunlight or excessive heat or humidity. Also avoid places with too much dust or the possibility of water splashing.

Reattaching Faceplate:

1. Align the projections on the unit with the grooves on the faceplate.
2. Push the faceplate in until it clicks.
   The faceplate is locked in place, allowing you to use the unit.

General features

Attenuator

This function allows you to turn down the volume quickly.

Turning Attenuator On/Off:

Press the ATT button to switch the attenuator on and off.
When the attenuator is on, the ATT indicator blinks.
When the attenuator is off, the volume returns to the original level.

NOTE

Turning the volume up, or turning it all the way down deactivates the attenuator function.

Loudness

This function amplifies low and high tones when the volume is turned down.
The LOUD indicator lights up, when the loudness function is on.

Turning Loudness On/Off:

Hold down the LOUD button for one second or more to switch the loudness on and off.

Audio Control Setting

Adjust various parameters of sound quality.

1 Press the AUD button to enter the control mode.

2 ***Selecting mode***
Press either the FM or AM button.
Each time the button is pressed, the adjustment mode will change.
Please refer to the following for the contents of the adjustment modes.

NOTE Source tone memory
Each source (CD, FM, AM, and disc changer) has its own memory in which to store the bass and treble tone settings.
The settings made for a particular source are then recalled automatically whenever you use that source (e.g., FM mode uses the tone settings made for FM, AM for AM, etc.).

3 ***Adjust each mode***
Press the ⏮/⏭ button.
Please refer to the following for the adjusting values.

4 Press the AUD button to end the control mode.

"dB": Recalling the kenwood preset sound setting

Press the preset buttons (#1-5).
Settings: #1;FLAT, #2;ROCK, #3;POPS, #4;JAZZ, #5;EASY

NOTE

You can call the following settings with this function; bass centre frequency, bass level, bass quality factor, bass extension, treble centre frequency, and treble level setting.

"BAS": Adjust the bass level.

Setting values: - 8 - + 8

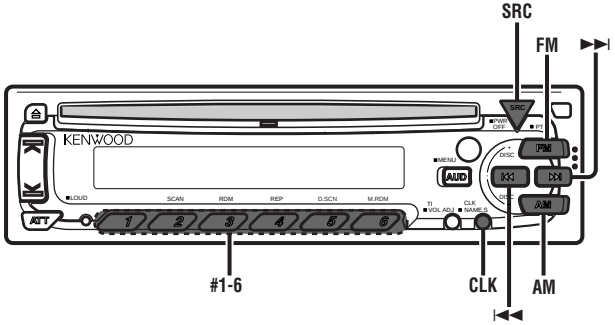
"TRE": Adjust the treble level.

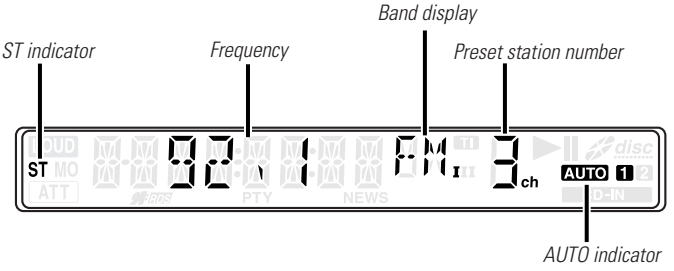
Setting values: - 8 - + 8

"BAL": Adjust the balance level.

Setting values: Left 15 - Right 15

"FAD": Adjust the fader level.
Setting values: Front 15 - Rear 15





Tuner features

Tuning

1 Press the SRC button repeatedly until the tuner mode is obtained. "TUNER" is displayed only when the tuner mode is selected.

2 Press either the FM or AM button to select the band.
Each time you press the FM button, the band switches between the FM1, FM2 and FM3.
Press the AM button to select the MW and LW bands.

3 • Auto Seek Tuning
Press the ►►I button to seek increasing frequencies.
Press the I◄◄ button to seek decreasing frequencies.
• Preset station seek tuning
Press the ►►I button to move to the next preset station (i.e., the one with the next highest number), and the I◄◄ button to move to the last preset station (i.e., the one with the next lowest number).

NOTE

If the frequencies stored at the preset numbers receive stations which were not originally memorized when traveling long distances, the preset number is not displayed. In such cases, pressing the I◄◄/►►I button to use preset station seek will receive channel 1.

• Manual Tuning
Press the ►►I button to increase the frequency by one step.
Press the I◄◄ button to decrease the frequency by one step.

NOTE

- The ST indicator lights up when stereo broadcasts are being received.
- Please see the menu settings about selecting tuning mode. (page 23)

Station Preset Memory

Store the frequency of the station currently being listened to. You can then recall that station with a single touch of a button.

1 Select the band/ station that you want to have stored.

2 Hold down the button (#1-6) that you want to use for the station, for two seconds or more.
The button number blinks once in the display to indicate that the data has been stored.

Recalling a Preset Station:

Press the preset station button (#1-6) for the desired station.
The number of the recalled station is displayed.

NOTE

You can store 6 stations in each of the FM1, FM2, FM3, and AM (MW and LW) bands.

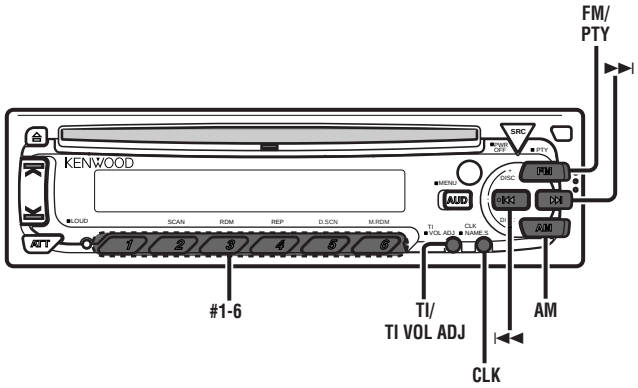
Clock display

Turning clock display On/Off:

Each time you press the CLK button, the display switches between the Programme Service name (during RDS station reception) and clock.

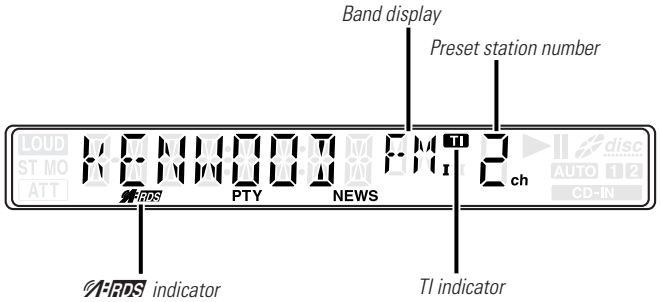
Displaying Frequencies:

Hold down the CLK button for one second or more.
The frequency for the RDS station will be displayed for five seconds instead of the station name.



RDS (Radio Data System)

RDS is a digital information system that lets you receive signals besides those of regular radio programmes, such as network information being transmitted from radio stations.
When listening to an RDS station (ie, a station with RDS capability), the programme service name of the station is displayed along with the frequency, advising you quickly which station is being received.
RDS (Radio Data System) stations also transmit frequency data for the same station. When you are making long trips, this function automatically switches to the particular frequency with the best reception for the particular network of stations that you want to listen to. The data is automatically stored, allowing you to switch quickly to another RDS stations, broadcasting the same programme, that has better reception. These include stations stored in the station preset memory that you often listen to.



Programme Type (PTY) Function

Conduct auto seek tuning only on those stations with selected kinds of programmes.

1 Hold down the PTY button for at least one second or more.
"PTY" is displayed, and the Programme Type Selection (PTY) Mode entered.
If you make no key input in 30 seconds, the mode will automatically turn off.

NOTE

You cannot use this function whilst the traffic information function is turned on.

NOTE Changing the Display Language to French, or German

In the PTY mode, hold down the CLK button for one second or more to display the name of the language currently used.
If you want to change the language, press the preset button for the desired language and then the CLK button.
English is #1, French is #2, and German is #3.

2 ***Select the type of programme to be received***

- Press either the FM or AM buttons repeatedly until the type of programme you want to listen to.

The selection includes:

Speech	*(SPEECH)*
1. News	(NEWS)
2. Current Affairs	(AFFAIRS)
3. Information	(INFO)
4. Sports	(SPORT)
5. Education	(EDUCATE)
6. Drama	(DRAMA)
7. Culture	(CULTURE)
8. Science	(SCIENCE)
9. Varied	(VARIED)
10. Pop Music	(POP M)
11. Rock Music	(ROCK M)
12. Easy Listening Music	(EASY M)
13. Light Classical	(LIGHT M)
14. Serious Classical	(CLASSICS)
15. Other Music	(OTHER M)
16. Weather	(WEATHER)
17. Finance	(FINANCE)
18. Children's programmes	(CHILDREN)
19. Social Affairs	(SOCIAL A)
20. Religion	(RELIGION)
21. Phone In	(PHONE IN)
22. Travel	(TRAVEL)
23. Leisure	(LEISURE)
24. Jazz Music	(JAZZ)
25. Country Music	(COUNTRY)
26. National Music	(NATION M)
27. Oldies Music	(OLDIES)
28. Folk Music	(FOLK M)
29. Documentary	(DOCUMENT)
Music	*(MUSIC)*

(*Speech*.....1~9,16~23, 29, *Music*.....10~15, 24~28)

- You can select the type of programme directly by pressing a preset button. The buttons are factory-set to the following type of programmes:

1. *Music*	2. *Speech*	3. News
4. Other Music	5. Serious Classical	6. Varied

NOTE Changing the Preset Button Settings for Programme Type

After selecting the type of programme to be stored in a certain preset button, hold down that button for two seconds or more. The previously stored data for that button are erased and the new programme type is stored.

3 ***Seeking the selected programme type***

Press the I◄◄ or ►►I button to make a seek of frequencies with your selected type of programme.
The display blinks and the seek starts.
If your selected type of programme is found, the name of the station is displayed and the station is tuned into.
"PTY" blinks in the display for about 30 seconds.
If you make no key input in 30 seconds, the PTY selection mode will turn off automatically.

NOTE

If no programme can be found, "NO PTY" is displayed.
If you want to select another type of programme, repeat steps 2 and 3 above.

Switching to Other Stations with the Same Type of Programme:

When "PTY" is blinking in the display, perform auto seek tuning.
The tuner scans for another station with the same type of programme.

Cancelling Programme Type Function During Its Operation:
Hold down the PTY button for at least one second or more.

Traffic Information Function

You can listen to traffic information. If you are listening to tapes or discs, they will continue playing until a traffic bulletin is broadcast.

Turning TI function On/Off:
Press the TI button to turn the function on and off.
When the function is on, the TI indicator is turned on.
When none is being received, the TI indicator will blink on and off. When a traffic information station is being received, the TI indicator will turn on.
When a traffic bulletin begins to be broadcast, "TRAFFIC" will be displayed, and reception will begin at the preset volume.
If you are listening to a tape or disc when a traffic bulletin begins, they will automatically be turned off. When the bulletin ends or poor reception is experienced, the tape or disc will begin playing again.

NOTE

Pressing the TI button whilst in the MW/LW band automatically switches reception to the FM band. However, the MW/LW band is not returned to when the TI button is pressed again.

Switching to a Different Traffic Information Station:
Use the I◄◄ / ►►I buttons to make an auto seek of the TI stations in a certain band.

NOTE

- When you are listening to a tape or disc, you cannot change to another TI station.
- When the auto TP seek function is turned on and reception starts to weaken, the tuner automatically seeks traffic information stations with better reception.
- If you are tuned to a station that is not a traffic information station itself but which provides <Enhanced Other Network> services, you can still have traffic information received.
- Holding the TI button down for one second or more when the TI function is on in the disc control mode results in a change to the frequency display of the traffic information station for five seconds.

Presetting Volume for Traffic Information/News

Preset the volume level to be used for traffic information and news broadcasts.

1. Tune into the station for which you want to set the volume.
2. Adjust the volume to the desired level.
3. Hold down the TI VOL ADJ button for two seconds or more.
   The volume level blinks once in the display to indicate that the data has been stored.
   Future traffic information/news broadcasts are heard at the preset level.

NOTE

- The volume cannot be lowered by this function during tuner reception. The volume is only set when it is louder than the listening volume of the tuner.
- You can arrange only to listen to traffic information or news bulletins with at preset volume with the volume set at minimum.

RDS features

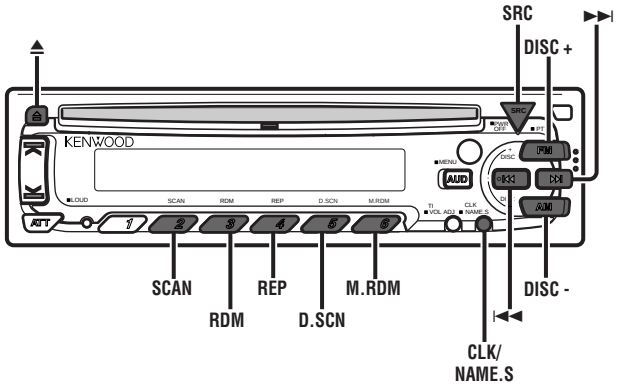
Enhanced Other Network

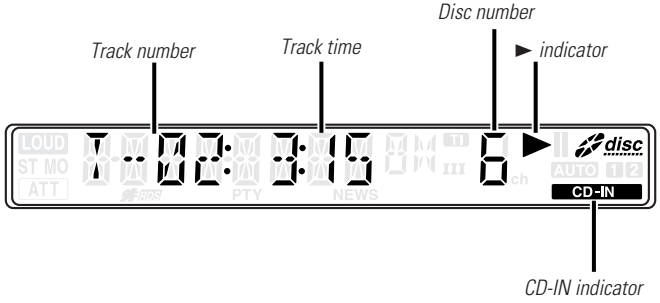
Stations that offer <Enhanced Other Network> also transmit information about other RDS stations that have traffic information. When you are tuned to a station that is not transmitting traffic information, but another RDS station starts transmitting a traffic bulletin, the tuner automatically switches to the other station for the duration of the bulletin.

Alarm

When an emergency transmission (announcing disasters, etc.) is sent, all current functions are interrupted to allow the warning to be received.

CD/External disc control features





When the disc changer with the O-N selection switch is connected, set the switch to "N" position to operate the external disc control mode.

Playing CDs

Playing CDs:

If no CDs are inserted, insert one in the slot with the label facing up.
If a CD is already inserted, press the SRC button repeatedly until the CD mode.
"CD" is displayed when the CD mode has been selected.
The CD will start playing.
The CD-IN indicator lights up when a CD has been inserted.
The ► indicator lights up when a CD is being played.

Stopping and Ejecting CDs:

Press the ⏏ button.
The CD stops playing and ejects from the slot.

⚠CAUTION

- Do not attempt to insert a CD into the slot if another one is already there.
- The unit can only play 12-cm (5-inch) CDs. If you insert an 8-cm (3-inch) CD, it will get stuck inside and can cause the unit to malfunction.

NOTE

When you load a CD and eject it right away, the next time you try to insert the CD may not load. In such a situation, take the CD out for a moment and then reinsert it.

Function of the KDC-4080R/KDC-4080RV

Playing Other Disc mode

This function permits the connection of optional players and the playing of discs other than the loaded CD (in the current unit).

Playing Discs:

Press the SRC button repeatedly to select the external disc control mode.
The disc will start playing.

NOTE

The external disc control mode will differ, depending on the unit that is connected.

Mode Display Examples
- "CD2"...when a CD player is connected
- "DISC"...when a disc changer is connected
- "DISC-1", "DISC-2"...when two disc changers are connected

NOTE

- When one disc has finished playing its last track, the next disc in the changer starts playing. When the last disc in the changer has finished, the player returns to the first disc and starts playing it.
- Disc #10 is displayed as "0".

Fast Forwarding and Reversing Disc Play

Fast Forwarding Disc Play:

Hold down on the ►►| button.
Release your finger to play the disc at that point.

Reversing Disc Play:

Hold down on the |◄◄ button.
Release your finger to play the disc at the point.

NOTE

You cannot use reverse play between tracks depending on the model being connected. Instead, the reverse play function is cancelled when it reaches the beginning of a track, at which point normal play automatically resumes.

CD/External disc control features

Track Search

Search forwards or backwards through the tracks on the disc until you reach the one that you want to listen to.

Making a Reverse Track Search:

Press the I◄◄ button to display the desired track number.
Press once to search back to the beginning of the current track, twice to search back to the beginning of the previous track, and so forth.
Play starts at the beginning of the displayed track number.

NOTE (For disc changers : KDC-4080R/KDC-4080RV only)

Pressing the I◄◄ button whilst listening to track 1 only searches back to the beginning of that track. The reverse search is not "recycled" to the last track on the disc.

Making a Forward Track Search:

Press the ►►I button to display the desired track number.
Press once to fast forward to the next track, twice to fast forward to the track after that, and so forth.
Play starts at the beginning of the displayed track number.

NOTE (For disc changers : KDC-4080R/KDC-4080RV only)

You cannot make a forward track search when listening to the last track on a disc.

Function of the KDC-4080R/KDC-4080RV

Disc Search *(Function of disc changers)*

Search forwards or backwards through the discs in a disc changer until you reach the one that you want to listen to.

Making a Reverse Disc Search:

Press the DISC− button to display the desired disc number.
Each time the button is pressed, the displayed disc number decreases by one.
Play starts at the beginning of the displayed disc.

Making a Forward Disc Search:

Press the DISC+ button to display the desired disc number.
Each time the button is pressed, the displayed disc number increases by one.
Play starts at the beginning of the displayed disc.

NOTE

"LOAD" is displayed when discs are being exchanged on the disc changer.

Track / Disc Repeat

Repeat playing the current track or disc.

Turning Repeat Play Function On/Off:

Press the REP button to switch the repeat play function on and off as follows :

Track Repeat ON
▼
Disc Repeat ON (Function of disc changers : KDC-4080R/KDC-4080RV only)
▼
Track/Disc Repeat OFF

"REP ON/TREP ON" is displayed and the track number blinks in the display when track repeat is on.
"DREP ON" is displayed and the disc number blinks in the display when disc repeat is on.

NOTE

Repeat play is cancelled when you eject the disc.

Track Scan

Successively play the beginning of each track on a disc until you find the track that you want to listen to.

Starting the Track Scan:

Press the SCAN button. "SCAN ON/TSCN ON" is displayed and the first 10 seconds of each track are played, and the tracks are played in order.
The track number currently being heard blinks in the display.

Stopping to Listen to the Track Being Scanned:

Press the SCAN button again to stop the scan and keep on listening to a track normally.

NOTE

- The track scan function is cancelled when you eject the disc.
- The track scan function only scans each track on a disc once.

Function of the KDC-4080R/KDC-4080RV

Disc Scan *(Function of disc changers)*

Successively play the beginning of each disc on a changer until you find the one that you want to listen to.

Starting the disc scan:

Press the D.SCN button. "DSCN ON" is displayed and the first 10 seconds of each disc are played, in the order in which they are loaded on the changer.
The disc number currently being heard blinks in the display.

Stopping to Listen to the Disc Being Scanned:

Press the D.SCN button again to stop the scan and keep on listening to the disc normally.

NOTE

- The disc scan function is cancelled when you eject the disc.
- The disc scan function only scans each disc on the changer once.
- "LOAD" is displayed when discs are being exchanged on the disc changer.

Random Play

Play all the tracks on the current disc in random order.

1 Press the RDM button to switch the random play function on and off.
"RDM ON" is displayed when random play is turned on.
The display of the track number changes continuously as the next track is being selected.
When the track has been selected, play starts.
The selected track number blinks in the display as it is being played.

NOTE (For disc changers : KDC-4080R/KDC-4080RV only)
When all the tracks on a certain disc have been played using the random play function, the next disc on the changer starts playing (with the random play function still turned on).

2 To change the track being heard, press the ►►I button.
Another track is selected and played.

NOTE

Random play is cancelled when you eject the disc.

CD/External disc control features

Function of the KDC-4080R/KDC-4080RV

Magazine Random Play *(Function of disc changers)*

Play the tracks on all the discs in the disc changer in random order.

1 Press the M.RDM button to switch the magazine random play function on and off.
"MRDM ON" is displayed when magazine random play is turned on.
The display of the disc and track numbers change continuously as the next track is being selected.
When the disc/track has been selected, play starts.
The selected disc/track number blinks in the display as it is being played.

NOTE

This function is not available with the following models:
KDC-C200/C300/C400/C301/C401

2 To change the track being heard, press the ►►I button.
Another disc/track is selected and played.

NOTE

- Magazine random play is cancelled when you eject the disc.
- The time needed for random selection depends on the number of discs loaded in the disc magazine.

Switching Display for Discs

Switch the display that appears whilst discs are playing.

Switching Display for Discs:

Each time you press the CLK button, the display during disc play switches as follows.

Track time
▼
Disc name (DNPS) (Function of disc changers : KDC-4080R/KDC-4080RV only)
▼
Disc title (Units featuring CD text/MD only : KDC-4080R/KDC-4080RV)
▼
Track title (Units featuring CD text/MD only : KDC-4080R/KDC-4080RV)
▼
Clock

NOTE

- You can give names to discs through the presetting disc name function (see p. 18).
  Note that depending on the unit, display may not be possible.
- If you try to display the name of a disc that does not have one, "NO NAME" is displayed instead.
- When there is an attempt to display the title of a disc for which the disc title/track title has not been recorded, "NO TEXT" is displayed for CD and "NO TITLE/NO NAME" is displayed for MD.
- Depending on the type of characters of the CD Text, some characters may not be displayable.

Function of the KDC-4080R/KDC-4080RV

Presetting Disc Names

Store the names of discs to be displayed when played.

1 Play the disc whose name you want to preset.

NOTE

- This function is not available for disc changers that do not feature the Disc Name Preset function.

• This procedure is not to be used to store the disc and track titles for MDs that you record.

2 Hold down the NAME.S button for two seconds or more.
"NAME SET" is displayed and the disc name preset mode is entered.
The cursor blinks in the position where character input can be made.

3 Press either the ⏮ or ⏭ button to move the cursor to the desired position.
The ⏮ button moves the cursor to the left, and the ⏭ button to the right.
You can also move the cursor left or right by pressing the TRACK+ or TRACK− buttons, respectively, on the remote control.

4 Press the DISC+ or DISC− button to display the desired character.
Characters that can be displayed are as follows.
Alphabet (upper case) : A ~ Z
Numerals and symbols : 0~9 @ " ' ` % & * + - = , . / \ < > [ ]

NOTE

The operation and characters that can be entered may change as listed below, depending on the unit that is connected.
Press the DISC+ or DISC− button to display the desired character. Besides the alphabet (capital letters only) and numbers, you can choose the following characters: /, +, −, *, =, <, >, [and].

5 Continue steps 3 and 4 until all the characters are chosen for the name.

NOTE

You can enter up to 8 characters for each name.

6 Press either the NAME.S button on the main unit or the OK button on the remote control.
The disc name is stored and the disc name preset mode is cancelled.
If you make no entry in a 10-second period, the name will be stored with the characters entered so far.

NOTE

• The number of discs whose names can be stored will differ depending on the disc changer that is connected. Please see your disc changer manual for details.
• Discs are identified by their total length and number of tracks. If you play another CD that happens to have exactly the same specifications as another CD whose name is stored, the wrong name will be displayed for it.
• If you want to change the name of a disc, repeat steps 1 and 2 to display the name, and then repeat steps 3 and 4 to enter the changes.
• Pressing the reset button erases the disc nemes stored in this unit, but does not erase the names stored in a disc changer.

CD/External disc control features

Function of the KDC-4080R/KDC-4080RV

Text Scroll

This function permits the text to be scrolled and the entire text to be displayed. The scrolling method differs depending on the setting of scrolling in the menu.

To scroll manually:

1 Press the CLK button to display the disc title or the track title.

2 Holding down the CLK button for one second or more results in one scrolling display of the titles.

To scroll automatically:

1 Press the CLK button to display the disc title or the track title. The titles will be displayed in one scrolling display.

NOTE

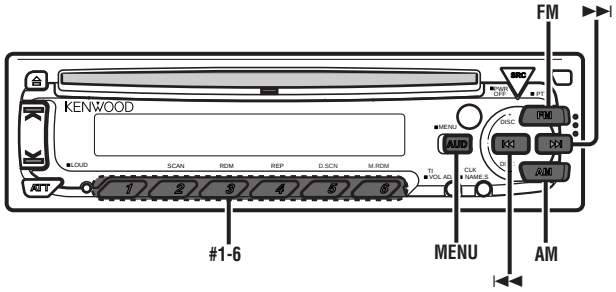
When the disc or track to be played changes, the title is displayed in one scrolling display.

2 Holding down the CLK button for one second or more results in one scrolling display of the titles.

NOTE

- Please see the menu settings (page 24) about switching between manual scrolling and automatic scrolling.
- Only units with a CD text feature permit title display.

Menu settings



Menu display

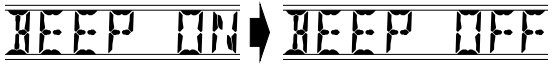
Menu System

You can set the defaults for additional functions in the menu mode.
Make a setting for each function, referring to the following operations.

1 ***Enter the menu mode***
Hold down the MENU button for one second or more.
"MENU" is displayed when the menu mode is entered.
The function that you can adjust is indicated with the current settings displayed.

2 ***Selecting function to set***
Press the FM button to search through the functions until you see the one you want to adjust in the display.
Press the AM button to search through the functions backward.
Example: If you want to the setting of the touch sensor tone function from on to off, first search through the functions until you see "BEEP ON" in the display.

3 ***Changing setting for currently displayed function***
Press either the I◄◄ or ►►I button.
The setting will change for each function.
Example: The setting of the touch sensor tone will switch from on to off, and "BEEP OFF" is displayed.



4 ***Ending the menu mode***
Press the MENU button.

NOTE

Make sure to end the menu mode when finished.
If you fail to end the menu mode, several functions may not operate properly, including the Traffic Information function and the Alarm function.

Touch Sensor Tone

This function produces a beep sound that accompanies button operation. It can be switched on or off.

Display and setting:
"BEEP ON": Beep setting is on.
"BEEP OFF": Beep setting is off.

NOTE

The beep sound is not output from the preout jacks.

Manual Time Adjustment

Adjust the time manually.

NOTE

This adjustment is available only when the automatic time adjustment is set to off.

Display and setting:

1 Select the display "CLK ADJ" during the selecting function in the menu system.

2 Hold down either the I◄◄ or ►►I button for two seconds or more to enter the Manual time adjustment mode.
The time display will blink.

3 • Adjusting the hours
Press the FM button to advance the hours, or press the AM button to make the hours go back.
• Adjusting the minutes
Press the ►►I button to advance the minutes, or press the I◄◄ button to make the minutes go back.

Menu settings

Automatic Time Adjustment

With automatic time adjustment, you can set the clock time automatically according to time data sent from RDS stations (after receiving RDS signals for several minutes). You can also set the time manually if the automatic time adjustment function is turned off. The factory default is automatic time adjustment.

Display and setting:

"SYNC ON": Automatic time adjustment
"SYNC OFF": Manual time adjustment

Adjusting Time Automatically:

Tune into an RDS station for 3 or 4 minutes.
The time adjusts automatically to the correct local time.

NOTE

The time is not adjusted when the RDS station you are tuned to is not transmitting a time signal. Choose another RDS station in such a case.

Disabled System Indicator (DSI)

A red indicator blinks on the unit after the faceplate is removed, warning potential thieves. The factory default for this function is "ON".

Display and setting:

"DSI ON": The disabled system indicator is on.
"DSI OFF": The disabled system indicator is off.

Function of the KDC-4080R/KDC-4080RV

Selectable Illumination

You can switch the colour of the button illumination between green and red.

Display and setting:

"COL GRN": The colour of the illumination is green.
"COL RED": The colour of the illumination is red.

News Bulletin Function with PTY News Timeout Setting

You can arrange to have news bulletins interrupt your current listening source, including other radio stations. When the News Bulletin function is on, the PTY News Timeout setting allows you to set the interval during which further news interruption cannot take place. You can adjust the PTY news interruption period from 10 to 90 minutes for each journey.

Display and setting:

"NEWS OFF/ 00M/ 10M/ 20M/ 30M/ 40M/ 50M/ 60M/ 70M/ 80M/ 90M" (M= minutes)

: When you select the news interruption timeout interval, the News function turns on and the NEWS indicator lights up. When a news bulletin is received, "NEWS" will be displayed and reception will begin at the preset volume.

NOTE

- If you choose the "20M" setting, further news bulletins will not be received for 20 minutes once the first news bulletin is received.
- This function is only available if the desired station sends PTY-code for news bulletin or belongs to <Enhanced Other Network>-Network sending PTY-code for news bulletin.
- If you turn on the news bulletin function in the MW/LW band, the band is switched automatically to the FM band. However, the MW/LW band is not returned to when you turn off the function.

Local Seek Function

With the local seek function turned on, auto seek tuning skips stations with relatively poor reception.

Display and setting:

"LO.S ON": The local seek function is on.
"LO.S OFF": The local seek function is off.

Selecting Tuning Mode

You can choose from three tuning modes: auto seek, preset station seek, and manual. The “AUTO 1” indicator lights up when auto seek tuning is selected, and the “AUTO 2” indicator lights when preset station seek tuning is selected.

Display and setting:

"AUTO 1": Auto seek tuning mode
"AUTO 2": Preset station seek tuning mode
"MANUAL": Manual tuning mode

Auto Memory Entry

You can automatically store all the receivable frequencies in the band currently being listened to, and then recall them with the touch of a button later. This function is especially useful when you are travelling and do not know what stations are available. Up to 6 frequencies can be stored this way.

Display and setting:

1 Select the display "A-MEMORY" during the selecting function in the menu system.

2 Hold down either the ⏮ or ⏭ button for two seconds or more to start auto memory function.
The numbers of the preset station buttons showed in order. When all the stations in a certain band are stored in the preset memory, the auto memory entry stops. The tuner then plays the last station received.

NOTE

- When the AF function is turned on whilst auto memory entry takes place, only RDS stations (i.e., stations with RDS capability) are stored. RDS stations that have been preset for FM1 cannot also be preset in FM2 or FM3.
- When the local seek function is turned whilst auto memory entry takes place, stations with poor reception are not stored.
- When the Traffic Information function is on , only the local traffic information station frequency will be stored.

Cancelling Auto Memory Entry During Its Operation:

Press the MENU button whilst auto memory entry is taking place to stop the process.

Recalling a Preset Station:

Press the preset station button (#1-6) for the desired station. The number of the recalled station is displayed.

AF (Alternative Frequency) Function

When poor reception is experienced, automatically switch to another frequency broadcasting the same programme in the same RDS network with better reception.
The *A·F·RDS* indicator lights up when the AF function is turned on.

Display and setting:

"AF ON": The AF function is on.
"AF OFF": The AF function is off.

NOTE

- When no other stations with stronger reception are available for the same programme in the RDS network, you may hear the incoming broadcast in bits and snatches. Turn off the AF function in such a case.
- The AF function can be turned on or off even when the standby mode has been turned on. If the power is on, the AF function tunes in to stations that offer good reception.

Menu settings

Restricting RDS Region (Region Restrict Function)

You can choose whether or not to restrict the RDS channels, received with the AF function for a particular network, to a specific region. When the Region Restrict Function is on, the region is restricted.

Display and setting:

"REG ON": The Region Restrict Function is on.
"REG OFF": The Region Restrict Function is off.

NOTE

Sometimes stations in the same network broadcast different programmes or use different programme service names.

Auto TP Seek Function

When the TI function is on and poor reception conditions are experienced when listening to a traffic information station, another traffic information station with better reception will be searched for automatically. This function is on, when unit is first powered on.

Display and setting:

"ATPS ON": The Auto TP Seek Function is on.
If the traffic information station you are tuned to experiences poor reception, this function automatically seeks another TP station.
"ATPS OFF": The Auto TP Seek Function is off.

Monaural Reception

When poor stereo reception is experienced, this function will reduce noise and improve listening conditions.

Display and setting:

"MONO ON": The monaural reception is on.
"MONO OFF": The monaural reception is off.

Function of the KDC-4080R/KDC-4080RV

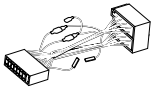
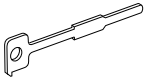
Text Scroll

This function permits the CD text and MD title to be scrolled and the entire text to be displayed. Switching between manual scrolling and automatic scrolling is permitted. The factory default is manual scrolling.

Display and setting:

"SCL AUTO": Automatic scrolling
"SCL MANU": Manual scrolling

Accessories

	External view	Number of items
①		1
②		2
③		1

⚠CAUTION

The use of any accessories except for those provided might result in damage to the unit. Make sure only to use the accessories shipped with the unit, as shown above.

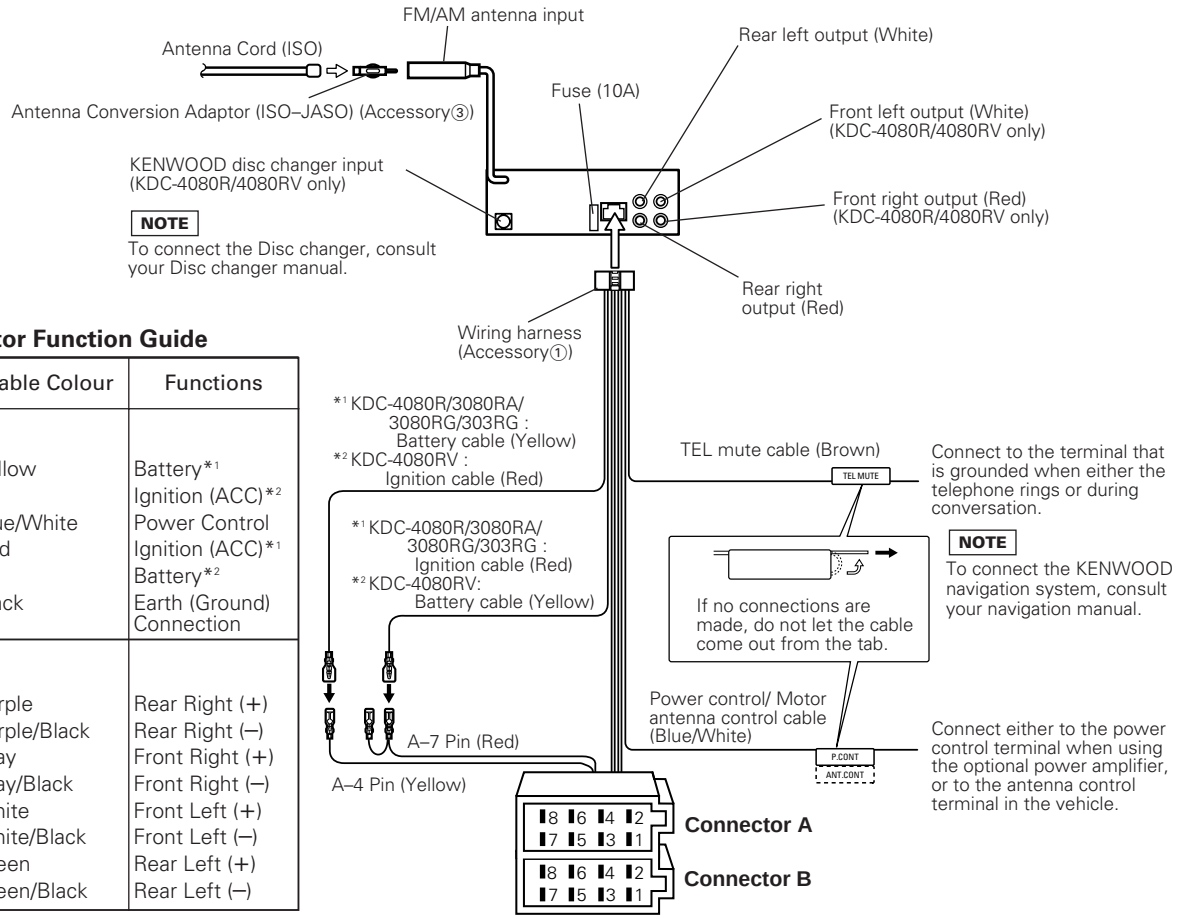
Installation Procedure

1. To prevent short circuits, remove the key from the ignition and disconnect the ⊖terminal of the battery.
2. Make the proper input and output cable connections for each unit.
3. Connect the cable on the wiring harness.
4. Take Connector B on the wiring harness and connect it to the speaker connector in your vehicle.
5. Take Connector A on the wiring harness and connect it to the external power connector on your vehicle.
6. Connect the wiring harness connector to the unit.
7. Install the unit in your car.
8. Reconnect the ⊖ terminal of the battery.
9. Press the reset button.

⚠CAUTION

- If your car is not prepared for this special connection-system, consult your Kenwood dealer.
- Only use antenna conversion adapters (ISO-JASO) when the antenna cord has an ISO plug.
- Make sure that all cable connections are securely made by inserting jacks until they lock completely.
- If your vehicle's ignition does not have an ACC position, or if the ignition cable is connected to a power source with constant voltage such as a battery cable, the power will not be linked with the ignition (i.e., it will not turn on and off along with the ignition). If you want to link the unit's power with the ignition, connect the ignition cable to a power source that can be turned on and off with the ignition key.
- If the fuse blows, first make sure that the cables have not caused a short circuit, then replace the old fuse with one with the same rating.
- Do not let unconnected cables or terminals touch metal on the car or anything else conducting electricity. To prevent short circuits, also do not remove the caps on the ends of the unconnected cables or the terminals.
- Connect the speaker cables correctly to the terminals to which they correspond. The unit may receive damage or fail to work if you share the ⊖ cables and/or ground them to any metal part in the car.
- After the unit is installed, check whether the brake lamps, indicators, wipers, etc. on the car are working properly.
- Insulate unconnected cables with vinyl tape or other similar material.
- Some disc changers need conversion cables for connection. See the section on "Safety Precautions" for details.
- If the console has a lid, make sure to install the unit so that the faceplate does not hit the lid when closing and opening.
- Mount the unit so that the mounting angle is 30° or less.

Connecting Cables to Terminals


FM/AM antenna input
Antenna Cord (ISO)
Antenna Conversion Adaptor (ISO–JASO) (Accessory③)
Fuse (10A)
Rear left output (White)
Front left output (White)
(KDC-4080R/4080RV only)
KENWOOD disc changer input
(KDC-4080R/4080RV only)
Front right output (Red)
(KDC-4080R/4080RV only)
NOTE
To connect the Disc changer, consult your Disc changer manual.
Rear right output (Red)
Wiring harness (Accessory①)
*1 KDC-4080R/3080RA/ 3080RG/303RG : Battery cable (Yellow)
*2 KDC-4080RV : Ignition cable (Red)
TEL mute cable (Brown)
TEL MUTE
Connect to the terminal that is grounded when either the telephone rings or during conversation.
*1 KDC-4080R/3080RA/ 3080RG/303RG : Ignition cable (Red)
*2 KDC-4080RV: Battery cable (Yellow)
NOTE
To connect the KENWOOD navigation system, consult your navigation manual.
If no connections are made, do not let the cable come out from the tab.
Power control/ Motor antenna control cable (Blue/White)
P.CONT
ANT.CONT
Connect either to the power control terminal when using the optional power amplifier, or to the antenna control terminal in the vehicle.
A–7 Pin (Red)
A–4 Pin (Yellow)
8 6 4 2
7 5 3 1
Connector A
8 6 4 2
7 5 3 1
Connector B

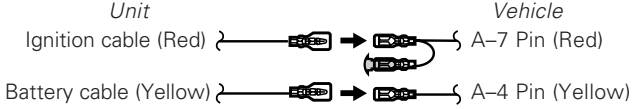
Connector Function Guide

Pin Numbers for ISO Connectors	Cable Colour	Functions
External Power Connector		
A–4	Yellow	Battery*1 Ignition (ACC)*2
A–5	Blue/White	Power Control
A–7	Red	Ignition (ACC)*1 Battery*2
A–8	Black	Earth (Ground) Connection
Speaker Connector		
B–1	Purple	Rear Right (+)
B–2	Purple/Black	Rear Right (–)
B–3	Gray	Front Right (+)
B–4	Gray/Black	Front Right (–)
B–5	White	Front Left (+)
B–6	White/Black	Front Left (–)
B–7	Green	Rear Left (+)
B–8	Green/Black	Rear Left (–)

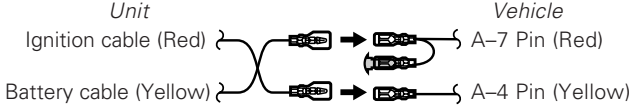
⚠WARNING Connecting the ISO Connector (see p.26)

The pin arrangement for the ISO connectors depends on the type of vehicle you drive. Make sure to make the proper connections to prevent damage to the unit.
The default connection for the wiring harness is described in 1 below. If the ISO connector pins are set as described in 2 or 3, make the connection as illustrated.

1 (Default setting) The A-7 pin (red) of the vehicle's ISO connector is linked with the ignition, and the A-4 pin (yellow) is connected to the constant power supply.



2 The A-7 pin (red) of the vehicle's ISO connector is connected to the constant power supply, and the A-4 pin (yellow) is linked to the ignition.

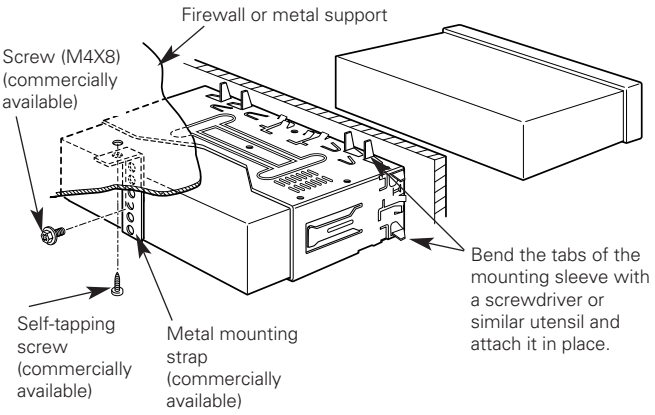


3 The A-7 pin (red) of the vehicle's ISO connector is not connected to anything, whilst the A-4 pin (yellow) is connected to the constant power supply (or both the A-7 (red) and A-4 (yellow) pins are connected to the constant power supply).

Unit
Vehicle
Ignition cable (Red)
Connect to a power source that can be turned on and off with the ignition key.
Battery cable (Yellow)
A–4 Pin (Yellow)

Installation

■ *Installation*


Firewall or metal support
Screw (M4X8) (commercially available)
Bend the tabs of the mounting sleeve with a screwdriver or similar utensil and attach it in place.
Self-tapping screw (commercially available)
Metal mounting strap (commercially available)

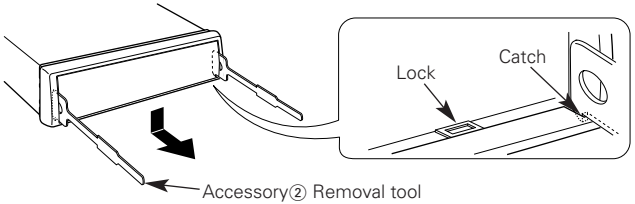
NOTE

Make sure that the unit is installed securely in place. If the unit is unstable, it may malfunction (eg, the sound may skip).

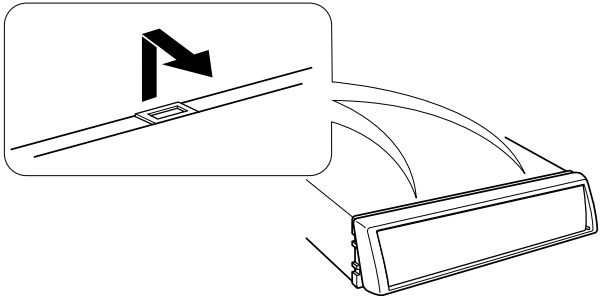
Installation

■ *Removing the hard rubber frame*

1 Engage the catch pins on the removal tool and remove the two locks on the lower level.
Lower the frame and pull it forward as shown in the figure.



2 When the lower level is removed, remove the upper two locations.



NOTE

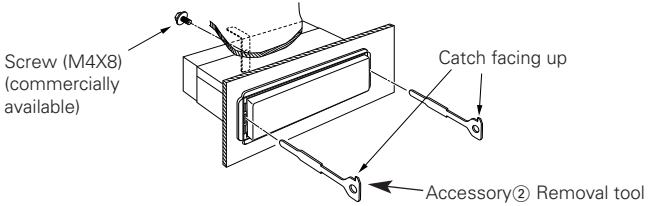
The frame can be removed from the top side in the same manner.

■ *Removing the Unit*

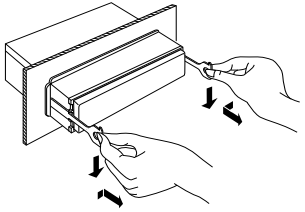
1 Refer to the section "Removing the hard rubber frame" and then remove the hard rubber frame.

2 Remove the screw (M4×8) on the back panel.

3 Insert the two removal tools deeply into the slots on each side, as shown.



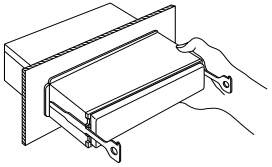
4 Lower the removal tool toward the bottom, and pull out the unit halfway whilst pressing towards the inside.



▲CAUTION

Be careful to avoid injury from the catch pins on the removal tool.

5 Pull the unit all the way out with your hands, being careful not to drop it.



Troubleshooting Guide

What might appear to be a malfunction in your unit may just be the result of slight misoperation or miswiring. Before calling service, first check the following table for possible problems.

PROBLEM	POSSIBLE CAUSE	SOLUTION
The power does not turn on.	The fuse has blown.	After checking for short circuits in the cables, replace the fuse with one having the same rating.
	No ACC position on vehicle ignition.	Connect the same cable to the ignition as the battery cable.
No sound can be heard, or the volume is low.	The Attenuator function is turned on.	Turn off the Attenuator function.
	The fader and/or balance settings are set all the way to one side.	Reset the fader and/or balance settings.
	The input/output cables or wiring harness are connected incorrectly.	Reconnect the input/output cables and/or the wiring harness correctly. See the section on "Connecting Cables to Terminals".
Nothing happens when the buttons are pressed.	The computer chip in the unit is not functioning normally.	Press the reset button on the unit (see page 4).
The sound quality is poor or distorted.	A speaker cable may be pinched by a screw in the car.	Check the speaker wiring.
	The speakers are not wired correctly.	Reconnect the speaker cables so that each output terminal is connected to a different speaker.
Radio reception is poor.	The car antenna is not extended.	Pull out the antenna all the way.
	The antenna control cable is not connected.	Connect the cable correctly, referring to the section on "Connecting Cables to Terminals".
The memory is erased when the ignition is turned off.	The battery cable has not been connected to the proper terminal.	Connect the cable correctly, referring to the section on "Connecting Cables to Terminals".
	The ignition and battery cable are incorrectly connected.	Connect the cable correctly, referring to the section on "Connecting Cables to Terminals".
The TEL mute function does not work.	The TEL mute cable is not connected properly.	Connect the cable correctly, referring to the section on "Connecting Cables to Terminals".
The TEL mute function turns on even though the TEL mute cable is not connected.	The TEL mute cable is touching a metal part of the car.	Pull the TEL mute cable away from the metal part of the car.

PROBLEM	POSSIBLE CAUSE	SOLUTION
A CD ejects as soon as it is loaded.	The CD is upside-down.	Load the CD with the labelled side up.
	The CD is quite dirty.	Clean the CD, referring to the section on "Cleaning CDs" (see page 5).
The sound skips on a CD.	The CD is scratched or dirty.	Clean the CD, referring to the section on "Cleaning CDs" (see page 5).
The specified track does not play.	Random play has been selected.	Turn off the random play function.

External disc control mode (KDC-4080R/4080RV only)

PROBLEM	POSSIBLE CAUSE	SOLUTION
The disc control mode cannot be selected.	No cable has been connected to the disc changer input terminal on the unit.	Connect the cable to the disc changer input terminal on the unit.
The specified disc does not play, but another one plays instead.	The specified CD is very dirty.	Clean the CD.
	The CD is upside-down.	Load the CD with the labelled side up.
	The disc is loaded in a different slot from that specified.	Eject the disc magazine and check the number for the specified disc.
	The disc is severely scratched.	Try another disc instead.
The sound skips.	Something is touching the disc changer.	Remove whatever is touching it.
	The CD is scratched or dirty.	If skipping happens at the same place when the car is stopped, something is wrong with the CD. Clean the CD.
The display shows that the changer is being played, but no sound can be heard.	The computer chip in the unit is not functioning normally.	Press the reset button on the unit (see page 4).
The specified track does not play.	Random play or magazine random play has been selected.	Turn off the random play or magazine random play function.

If the following situations, consult your nearest service centre:

- Even though the disc changer is connected, the Disc Changer Mode is not on, with "AUX" showing in the display during the Changer Mode.
- Even though no device (KCA-S210A, CA-C1AX, KDC-CPS85, KDC-CX85, KDC-CPS82 or KDC-CX82) is connected, the AUX Mode is entered when switching modes.

The following messages are displayed when certain problems are occurring in your system. Take the recommended actions.

EJECT	No disc magazine has been loaded in the changer. The disc magazine is not completely loaded. ⇨Load the disc magazine properly. No CD in the unit. ⇨Insert the CD.
NO DISC	No disc has been loaded in the disc magazine. ⇨Load a disc into the disc magazine.
E-04	No disc has been loaded in the disc magazine. ⇨Load a disc into the disc magazine. The CD is very dirty. The CD is upside-down. The CD is scratched a lot. ⇨Clean the CD and load it correctly.
BLANK	Nothing has been recorded on the MD. ⇨The next MD is automatically played back
NO TRACK	No tracks are recorded on the MD, although it has a title. ⇨The next MD is automatically played back.
NO PANEL	The faceplate of the slave unit being connected to this unit has been removed. ⇨Replace it.
E-77	The unit is malfunctioning for some reason. ⇨Press the reset button on the unit. If the "E- 77", code does not disappear, consult your nearest service centre.
E-99	Something is wrong with the disc magazine. Or the unit is malfunctioning for some reason. ⇨Check the disc magazine. And then, press the reset button on the unit. If the "E- 99" code does not disappear, consult your nearest service center.
HOLD	The protective circuit in the unit activates when the temperature inside the automatic disc changer exceeds 60°C (140°F), stopping all operation. ⇨Cool down the unit by opening the windows or turning on the air conditioner. As the temperature falls below 60°C (140°F), the disc starts playing again.

Specifications

Specifications subject to change without notice.

FM tuner section

Frequency range (50 kHz space) .....87.5 MHz – 108.0 MHz
Usable sensitivity (S/N = 26dB) .....0.7 µV/75 Ω
Quieting Sensitivity (S/N = 46dB) .....1.6 µV/75 Ω
Frequency response (±3.0 dB) .....30 Hz – 15 kHz
Signal to Noise ratio (MONO) .....65 dB
Selectivity (±400 kHz) .....≥ 80 dB
Stereo separation (1 kHz).....35 dB

MW tuner section

Frequency range (9 kHz space) .....531 kHz – 1611 kHz
Usable sensitivity (S/N = 20dB).....25 µV

LW tuner section

Frequency range.....153 kHz – 281 kHz
Usable sensitivity (S/N = 20dB).....45 µV

CD player section

Laser diode .....GaAlAs (λ=780 nm)
Digital filter (D/A).....8 Times Over Sampling
D/A Converter .....1 Bit
Spindle speed .....500 – 200 rpm (CLV)
Wow & Flutter .....Below Measurable Limit
Frequency response (±1 dB) .....10 Hz – 20 kHz
Total harmonic distortion (1 kHz) .....0.01 %
Signal to Noise ratio.....96 dB (1 kHz)
Dynamic range .....93 dB
Channel separation .....85 dB

Audio section

Maximum output power .....40 W × 4
Output power (DIN 45324, +B=14.4 V) .....26 W × 4
Tone action
Bass: .....100 Hz ±10 dB
Treble: .....10 kHz ±10 dB
Preout level / Load .....1800 mV/10 kΩ (During CD/disc play)
Preout impedance .....≤ 600 Ω

General

Operating voltage .....14.4 V (11 – 16 V allowable)
Current consumption .....10 A
Installation size (W × H × D) .....182 × 53 × 160 mm
Weight.....3.1 Lbs (1.4 kg)